

# silicon\_geometry

- Channel geometry (d0sim release version) – **no need for layer0**
  - Map (p-side and n-side strips intersect within active region or not)
    - silicon\_geometry/channel/utils/create\_map\_file.cpp
    - Put .dat to silicon\_geometry/maps
    - Add its name and timestamp and new .rcp to silicon\_geometry/rcp/smt\_version\_matching.rcp
  - SiChannelGeometer::check\_version
- Base geometry (d0gstar release version)
  - geometry\_db/db/geometry.db
    - Can dump with geometry\_db/bin/dump\_geometry\_db.cpp
  - geometry\_db/bin/update\_geometry\_db.cpp
  - geometry\_management/rcp/geometry\_management.rcp
  - Need a evpack SMT geometry file
    - smt\_alignment/rcp/SMTAligner.rcp, smt\_reference.rcp, smt\_move.rcp
    - d0\_alignment/utils/make\_aligned\_geometry.cpp
    - d0\_alignment/rcp/D0Alignment.rcp
    - Example at d0\_geometry/utils/convert\_smt.cpp, convert\_smt2b.cpp
    - Example at /work/harp-clued0/smt/smt\_geom/
- **Material geometry, and beam-pipe, outer H-disks (not done)**